INTERNATIONAL SEARCH REPORT

Internal Application No PC1/GB2004/002712

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H01S3/067								
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS	SEARCHED								
Minimum do IPC 7	cumentation searched (classification system followed by classification HO1S	on symbols)							
Documentat	lon searched other than minimum documentation to the extent that so	uch documents are included in the fields se	arched						
Electronic d	ata base consulted during the International search (name of data bas	se and, where practical, search terms used							
EPO-In	ternal								
Category °	ENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the rele	Want naccaone	Relevant to claim No.						
ou.ogo, y	Chambre of document, with indication, where appropriate, or the rele	vani passages	nelevant to daim No.						
X	US 5 864 645 A (ZELLMER ET AL)		1-5						
	26 January 1999 (1999-01-26) cited in the application								
	column 3, line 30 - line 35								
	column 4, line 4 - line 6; figure	s 2,5							
X	US 6 157 763 A (GRUBB ET AL)		1-5						
	5 December 2000 (2000-12-05) column 6, line 48 - line 65; figu	ires 17							
X	US 2002/181512 A1 (WANG ZHIJIANG 5 December 2002 (2002-12-05)	ET AL)	1						
	paragraph '0045!; figure 1								
Α	paragraph '0052!; figure 9		2-5						
Χ	EP 1 043 816 A2 (LUCENT TECHNOLOG	IES INC)	1-5						
	11 October 2000 (2000-10-11) column 3, line 30 - line 35; figu	ire 2							
		,							
X Furt	her documents are listed in the continuation of box C.	Y Patent family members are listed i	n annex.						
	itegories of cited documents :	*T* later document published after the inte or priority date and not in conflict with	rnational filing date						
consid	ent defining the general state of the art which is not bered to be of particular relevance	cited to understand the principle or the invention							
"E" earlier document but published on or after the International filing date "L" document which may throw doubts on priority claim(s) or		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to							
which	is altered to actablish the nublication data of another	"Y" document of particular relevance; the cannot be considered to involve an inv	laimed Invention						
other	ent referring to an oral disclosure, use, exhibition or means	document is combined with one or mo ments, such combination being obvious	re other such docu-						
P docume later ti	ent published prior to the international filing date but han the priority date claimed	in the art. *&* document member of the same patent	family						
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report						
2	5 January 2005	18/02/2005							
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer							
1	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Hervé, D							
	Fax: (+31-70) 340-3016	ווכו אב, ט							

INTERNATIONAL SEARCH REPORT

PC:/J2004/002712

			PC1/002004/002/12	
C.(Continui	tion) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
A	US 5 533 163 A (MUENDEL ET AL) 2 July 1996 (1996-07-02) figure 4c		1	
A	US 2002/172486 A1 (FERMANN MARTIN) 21 November 2002 (2002-11-21) figures 4b,5b			

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter 1al Application No PCT/GB2004/002712

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5864645	A	26-01-1999	DE	19535526 C1	03-04-1997
			CA	2204865 A1	03-04-1997
			CN	1166239 A ,B	26-11-1997
			DE	59602381 D1	12-08-1999
			DK	793867 T3	10-04-2000
			WO	9712429 A1	03-04-1997
			EP	0793867 A1	10-09-1997
			JP	10510104 T	29-09-1998
			RU	2138892 C1	27-09-1999
US 6157763	Α	05-12-2000	US	6345141 B1	05-02-2002
US 2002181512	A1	05-12-2002	WO	02097935 A1	05-12-2002
			DE	10296886 T5	29-07-2004
EP 1043816	A2	11-10-2000	US	6483973 B1	19-11-2002
US 5533163	A	02-07-1996	CA	2196188 A1	15-02-1996
			CN	1154764 A ,B	16-07-1997
			DE	69503249 D1	06-08-1998
			DE	69503249 T2	29-10-1998
			EP	0771481 A1	07-05-1997
			JP	10503885 T	07-04-1998
			KR	241581 B1	01-02-2000
			RU	2153214 C1	20-07-2000
			WO	9604700 A1	15-02-1996
US 2002172486	A1	21-11-2002	DE	10211352 A1	26-09-2002
	-		JP	2002323636 A	08-11-2002